

**Data Bus for a Plurality of Nodes****Patent Claims**

1. Data bus for a plurality of nodes that are connected to one another via a star coupler, characterized in that said nodes are connected to optoelectric transducers via an optical transmission segment, said transducers being connected on the load side or on the line side and being situated on said star coupler, that said transducers generate input signals of said star coupler in electrical form, and that said transducers determine the change and/or the absolute value of the electrical useful signal and output an electrical signal to said star coupler when there is a deviation by a given magnitude.

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2. Data bus according to Claim 1, characterized by a memory element for the signal of the individual optoelectric transducer.
3. Data bus according to Claim 1, characterized in that the memory element is addressable.
4. Data bus according to Claim 1 or 2, characterized in that the status of the memory element can be read out.
5. Data bus according to one of Claims 1 through 3, characterized in that the memory elements can be reset.

S/E Modul n	=	transmit/receive module n
S/E Modul n+1	=	transmit/receive module n+1
Zähler	=	counter
SPI-Schnittstelle und Steuerblock	=	SPI interface and control block